## Amendments to the Claims

(Original) A miniaturized multi-channel transmitter, comprising:

 a signal processing chip, wherein the signal processing chip
 includes:

a plurality of input preamplifiers;

a plurality of selective second amplifiers, wherein each selective second amplifier is connected to a different input preamplifier;

a subcarrier oscillator connected to the selective second amplifiers;

- a timing circuit connected to the subcarrier oscillator; a calibration circuit connected to the timing circuit; and a 1-of-several decoder connected to the timing circuit.
- 2. (Currently Amended) The transmitter of claim 1, wherein each of the preliminary amplifiers preamplifiers includes an output terminal connected to a pair of input terminals of a different selective second amplifier.
- 3. (Original) The transmitter of claim 1, wherein each of the selective second amplifiers includes a pair of input terminals connected to an output terminal of a different preamplifier.
- 4. (Original) The transmitter of claim 3, wherein each of the selective second amplifiers includes a select terminal connected to the <del>1-of</del> several 1-of-several decoder.
- 5. (Original) The transmitter of claim 4, wherein each of the selective second amplifiers includes an output terminal connected to an input terminal of the subcarrier oscillator.

- 6. (Original) The transmitter of claim 1, wherein the subcarrier oscillator includes an input terminal connected to an output terminal of each of the selective second amplifiers and the calibration circuit.
- 7. (Original) The transmitter of claim 6, wherein the subcarrier oscillator is connected to first and second monostable multivibrators.
- 8. (Original) The transmitter of claim 7, wherein the subcarrier oscillator includes:

a first clock terminal connected to the timing circuit; and a second clock terminal connected to one of the first and second monostable multivibrators.

- 9. (Original) The transmitter of claim 1, wherein the timing circuit includes a first plurality of toggle-connected flip-flops.
- 10. (Original) The transmitter of claim 9, wherein the flip-flops are type D flip-flops.
- 11. (Original) The transmitter of claim 1, wherein the calibration circuit includes an input terminal connected to the timing circuit.
- 12. (Original) The transmitter of claim 11, wherein the calibration circuit includes a select terminal connected to the 1-of-several decoder.
- 13. (Original) The transmitter of claim 15, wherein the calibration circuit includes an output terminal connected to an input terminal of the subcarrier oscillator.
- 14. (Original) The transmitter of claim 1, wherein the 1-of-several decoder is connected to a select terminal of each of the selective second amplifiers and the calibration circuit.

- 15. (Original) The transmitter of claim 1, wherein the signal processing chip further includes:
  - a temperature circuit connected to the timing circuit; and a reference circuit connected to the timing circuit.
- 16. (Original) The transmitter of claim 15, wherein the temperature circuit includes a select terminal connected to the 1-of-several decoder.
- 17. (Original) The transmitter of claim 16, wherein the temperature circuit includes an output terminal connected to an input terminal of the subcarrier oscillator.
- 18. (Original) The transmitter of claim 15, wherein the reference circuit includes a select terminal connected to the 1-of-several decoder.
- 19. (Original) The transmitter of claim 18, wherein the reference circuit includes an output terminal connected to an input terminal of the 1-of-several decoder.
- 20. (Original) The transmitter of claim 1, wherein the signal processing chip further includes first and second monostable multivibrators connected to the subcarrier oscillator.
- 21. (Original) The transmitter of claim 20, wherein the first and second monstable multivibrators are connected to the timing circuit.
- 22. (Original) The transmitter of claim 1, wherein the signal processing chip further includes an on-off switch.
- 23. (Original) The transmitter of claim 22, wherein the on-off switch is a magnetically activated switch.
- 24. (Original) The transmitter of claim 1, wherein the signal processing chip is an application specific integrated circuit.

- 25. (Original) The transmitter of claim 24, wherein the signal processing chip is a BiCMOS chip.
- 26. (Original) The transmitter of claim 25, wherein the signal processing chip has a length less than or equal to 2mm and a width less than or equal to 2mm.
- 27. (Original) The transmitter of claim 1, further comprising a substrate having the signal processing chip mounted thereon.
- 28. (Original) The transmitter of claim 27, further comprising a radio frequency oscillator mounted on the substrate.
- 29. (Original) The transmitter of claim 28, wherein the radio frequency oscillator includes an input terminal connected to an output terminal of the signal processing chip.
- 30. (Original) The transmitter of claim 28, further comprising an antenna connected to an output terminal of the radio frequency oscillator.
- 31. (Original) The transmitter of claim 30, further comprising a switch activator mounted on the substrate.
- 32. (Original) The transmitter of claim 31, wherein the switch activator is a hall-effect magnetic sensor.
- 33. (Original) The transmitter of claim 31, further comprising a housing that encloses the substrate.
- 34. (Original) The transmitter of claim 33, wherein the housing includes a base portion and a lid portion connected to the base portion.
- 35. (Original) The transmitter of claim 34, wherein the base portion includes a plurality of microterminals.

- 36. (Original) The transmitter of claim 34, wherein the lid portion is slidably connected to the base portion.
- 37. (Original) The transmitter of claim 33, further comprising a battery enclosed by the housing.
- 38. (Original) The transmitter of claim 37, wherein the transmitter has a length less than or equal to 10mm, a width less than or equal to 10mm and a thickness less than or equal to 5mm.